

aleddra™ - Your LED Lighting Partner

Energy Efficient Parking Garage Lighting

The Challenge

The PICA Parking Garage is underground and illuminated 24/7. PICA, owner of what is already one of the greatest office buildings in Tennessee, is constantly on the lookout for financially viable technologies that can help lower their environmental impact and operating costs. With 48 X 175W HID lights and 142 X 32W fluorescent tubes in the parking facility, energy costs were high. Maintenance and safety were also big considerations. Many of the HID lights were mounted above parking spaces, making it difficult to replace failed fixtures during regular hours. Compounding the problem, failed fixtures created poorly lit parking spots and real safety and security issues.

The Solution

Facilities Director, JC Blakely, CFM, looked at several lighting alternatives from a variety of vendors searching for a solution that met his criteria for cost, efficiency and reliability. The LED North America Manhattan LED fixture was selected for replacing HID and Aleddra EasiRetrofit™ LED T8 tubes for replacing fluorescent tubes, based upon price, performance and dependability. Taking advantage of the Manhattan's wide throw light pattern, the number of fixtures used in the Garage could be reduced by almost 40%.

The Results

Based upon the TVA (Tennessee Valley Authority) Lighting Workbook, PICA will reduce its annual energy needs for parking garage lighting from 194,814 kWh to 46,570 kWh – a whopping savings of 148,244 kWh, a reduction of over 75%. With the TVA Incentive, the payback will be 13 months and the project's Internal Rate of Return is >80%.



Podiatry Insurance Company of America (PICA) is the nation's leading provider of medical professional liability insurance for podiatric physicians in the United States.



Manhattan parking garage lighting fixture from LED North America



Aleddra EasiRetrofit™ LED Tube

Installation Snapshots

- Replacement of 49 x 175W HID with 30 x 81W Manhattan LED fixtures
- Replacement of 284 x 32W 4' fluorescent tube with Aleddra EasiRetrofit™ LED T8's
- Over 75% reduction in energy costs (down from 194,814 kWh to 46,570 kWh)
- Expensive maintenance eliminated (with 5-year warranty)
- Improved safety and security
- Payback in **13 months**

Manhattan parking garage luminaire is ETL and UL8759 certified. The Aleddra EasiRetrofit™ LED T8 is UL1598C classified. Both come with 5-year warranty.

For additional information on Manhattan luminaire and PICA project, please call 865-481-3600 or visit www.led-na.com. For Aleddra EasiRetrofit™ LED tube, please contact your local distributors or Aleddra at 425-430-4555, or email us at sales@aleddra.com.

